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AMENDMENTS TO THE CLAIMS

(Currently Amended) A method executed by a computer of determining a desired

This listing of claims replaces all prior versions, and listings, of claims in the application:

2	product corresponding to a user objective, comprising the steps of:
3	providing a first said-user objective and a second user objective;
4	providing a first set of input data selected from one or both of wellbore data and
5	reservoir data, and providing a second set of input data selected from one or both of wellbore
6	data and reservoir data;
7	automatically generating a first workflow in response to the first user objective, and
8	automatically generating a second workflow in response to the second user objective;
9	automatically selecting a first subset of software modules of a first tool and a second
10	subset of software modules of a second tool in response to the first workflow, wherein the first
11	subset corresponds to a first path in the first tool that defines a first order of execution of the
12	software modules in the first subset, and wherein the second subset corresponds to a second
13	path in the second tool that defines a second order of execution of the software modules in the
14	second subset;
15	automatically selecting a third subset of software modules of the first tool and a fourth
16	subset of software modules of the second tool in response to said second workflow, wherein the
17	third subset is different from the first subset, and the fourth subset is different from the second
18	subset, wherein the third subset corresponds to a third path in the first tool that defines a third
19	order of execution of the software modules in the third subset, wherein the third path is
20	different from the first path, wherein the fourth subset corresponds to a fourth path in the
21	second tool that defines a fourth order of execution of the software modules in the fourth
22	subset, and wherein the fourth path is different from the second path;
23	executing one or more the software modules of the first subset according to the first
24	path on a processor in response to said first set of input data;
25	executing one or more the software modules of the second subset according to the
26	second path on said processor in response to output from the one or more software modules of
27	the first subset;[[and]]

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28	executing the software modules in the third subset according to the third path on said
29	processor in response to said second set of input data;
30	executing the software modules in the fourth subset according to the fourth path on said
31	processor in response to output from the software modules of the third subset;
32	determining a first said desired product in response to at least executing the software
33	modules of the first and second subsets, wherein the first said desired product includes a model
34	of a reservoir to be produced by a well; and
35	determining a second said desired product in response to at least executing the software
36	modules of the third and fourth subsets, wherein the second said desired product includes
37	another model of the reservoir.

1 2. (Cancelled)

1	3. (Currently Amended) A computer-readable medium readable by a computer tangibly
2	embodying a set of instructions executable by said computer to perform method steps for
3	determining a desired product corresponding to a user objective, said method steps comprising:
4	receiving a first said user objective and a second user objective;
5	receiving a first set of input data selected from one or both of wellbore data and
6	reservoir data, and receiving a second set of input data selected from one or both of wellbore
7	data and reservoir data;
8	automatically generating a first workflow in response to the first user objective, and
9	automatically generating a second workflow in response to the second user objective;
10	automatically selecting a first subset of software modules of a first tool and a second
11	subset of software modules of a second tool in response to the first workflow, wherein the first
12	subset corresponds to a first path in the first tool that defines a first order of execution of the
13	software modules in the first subset, and wherein the second subset corresponds to a second
14	path in the second tool that defines a second order of execution of the software modules in the
15	second subset;
16	automatically selecting a third subset of software modules of the first tool and a fourth
17	subset of software modules of the second tool in response to said second workflow, wherein the
18	third subset is different from the first subset, and the fourth subset is different from the second
19	subset, wherein the third subset corresponds to a third path in the first tool that defines a third
20	order of execution of the software modules in the third subset, wherein the third path is
21	different from the first path, wherein the fourth subset corresponds to a fourth path in the
22	second tool that defines a fourth order of execution of the software modules in the fourth
23	subset, and wherein the fourth path is different from the second path;
24	executing one or more the software modules in the first subset according to the first
25	path on a processor in response to said first set of input data;
26	executing one or more the software modules of the second subset according to the
27	second path on said processor in response to output from the one or more software modules of
28	the first subset;[[and]]
29	executing the software modules in the third subset according to the third path on said
30	processor in response to said second set of input data;
31	executing the software modules in the fourth subset according to the fourth path on said

processor in response to output from the software modules of the third subset;
 determining a first said desired product in response to at least executing the software

modules of the first and second subsets, wherein the first said desired product includes a model of a reservoir to be produced by a well; and

determining a second said desired product in response to at least executing the software
modules of the third and fourth subsets, wherein the second said desired product includes
another model of the reservoir.

4. (Cancelled)

5. (Currently Amended) A system responsive to a set of input data and a user objective for generating a desired product corresponding to said user objective, comprising:

first apparatus for receiving a first said-user objective and a first set of input data selected from one or both of wellbore data and reservoir data, and for receiving a second user objective and a second set of input data selected from one or both of wellbore data and reservoir data;

second apparatus for automatically generating a first workflow in response to the first user objective, and automatically generating a second workflow in response to the second user objective;

third apparatus for automatically selecting a first subset of software modules of a first tool and a second subset of software modules of a second tool in response to the first workflow, and automatically selecting a third subset of software modules of the first tool and a fourth subset of software modules of the second tool in response to said second workflow, wherein the third subset is different from the first subset, and the fourth subset is different from the second subset, wherein the first subset corresponds to a first path in the first tool that defines a first order of execution of the software modules in the first subset, the second subset corresponds to a second path in the second tool that defines a second order of execution of the software modules in the second subset, the third subset corresponds to a third path in the first tool that defines a third order of execution of the software modules in the third subset, and the fourth subset corresponds to a fourth path in the second tool that defines a fourth order of execution of the software modules in the third subset, and the fourth subset corresponds to a fourth path in the second tool that defines a fourth order of execution of the software modules in the first path,

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and the fourth path is different from the second path; and

processor apparatus for automatically executing one or more the software modules of the first subset according to the first path in response to said first set of input data, executing one or more the software modules of the second subset according to the second path in response to output from the one or more software modules of the first subset, executing the software modules of the third subset according to the third path in response to said second set of input data, executing the software modules in the fourth subset according to the fourth path in response to output from the software modules of the third subset, [[and]] generating a first said desired product in response to at least execution of the software modules of the first and second subsets, and generating a second said desired product in response to at least execution of the software modules of the third and fourth subsets, wherein the first said desired product includes a model of a reservoir to be produced by a well, and wherein the second said desired product includes another model of the reservoir.

6. (Cancelled)

1	7. (Currently Amended) A method executed by a computer for determining a final product
2	in response to a user objective, comprising the steps of:
3	providing [[said]]a first user objective and providing first input data selected from one
4	or both of wellbore data and reservoir data, and providing a second user objective and
5	providing second input data selected from one or both of wellbore data and reservoir data;
6	generating a specific first workflow corresponding to said first user objective, and
7	generating a second workflow corresponding to said second user objective;
8	selecting a plurality of software modules in response to said specific first workflow,
9	said plurality of software modules including a first subset of software modules having a first
10	predetermined sequence, and a second subset of software modules having a second
11	predetermined sequence, wherein the software modules of the first subset are part of a first tool,
12	and the software modules of the second subset are part of a second tool;
13	selecting a different plurality of software modules in response to said second workflow,
14	said different plurality of software modules including a third subset of software modules having
15	a third predetermined sequence, and a fourth subset of software modules having a fourth
16	predetermined sequence, wherein the software modules of the third subset are part of the first
17	tool, the software modules of the fourth subset are part of the second tool, wherein the third
18	predetermined sequence is different from the first predetermined sequence, and the fourth
19	predetermined sequence is different from the second predetermined sequence;
20	executing said software modules of the first subset in said first predetermined sequence
21	in response to said <u>first</u> input data;
22	executing said software modules of the second subset in said second predetermined
23	sequence in response to output of the first subset of software modules;[[and]]
24	executing said software modules of the third subset in said third predetermined
25	sequence in response to said second input data;
26	executing said software modules of the fourth subset in said fourth predetermined
27	sequence in response to output of the third subset of software modules;
28	generating [[said]]a first final product when the execution of said pluralityfirst and
29	second subsets of software modules is complete, wherein said first final product includes a
30	model of a reservoir to be produced by a well; and
31	generating a second final product when the execution of said third and fourth subsets of

- 32 said software modules is complete, wherein said second final product includes another model
- of the reservoir.

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- 8. (Cancelled)
- 1 9. (Currently Amended) The method of claim 7, wherein executing said first subset of 2 software modules in said first predetermined sequence in response to said first input data 3 generates <u>first</u> conditioned data; [[and]]<u>wherein executing said third subset of software</u> 4 modules in said third predetermined sequence in response to said second input data generates 5 second conditioned data; wherein executing said second subset of software modules in said 6 second predetermined sequence is in response to said first conditioned data; wherein executing 7 said fourth subset of software modules in said fourth predetermined sequence is in response to 8 said second conditioned data, said first final product being generated when the execution of 9 said second subset of software modules in said second predetermined sequence is complete, 10 and said second final product being generated when the execution of said fourth subset of
- 1 10. (Currently Amended) A computer-readable medium readable by a computer tangibly embodying a set of instructions executable by the computer to perform method steps for determining a final product in response to a user objective, said method steps comprising:

software modules in said fourth predetermined sequence is complete.

providing [[said]]<u>a first</u> user objective and providing <u>first</u> input data selected from one or both of wellbore data and reservoir data, <u>and providing a second user objective and</u> <u>providing second input data selected from one or both of wellbore data and reservoir data</u>;

generating a specifie<u>first</u> workflow corresponding to said <u>first</u> user objective, <u>and</u> generating a second workflow corresponding to said second user objective;

selecting a plurality of software modules in response to said specific first workflow, said plurality of software modules including a first subset of software modules having a first predetermined sequence, and a second subset of software modules having a second predetermined sequence, wherein the software modules of the first subset are part of a first tool, and the software modules of the second subset are part of a second tool;

selecting a different plurality of software modules in response to said second workflow,

15	said different plurality of software modules including a third subset of software modules having
16	a third predetermined sequence, and a fourth subset of software modules having a fourth
17	predetermined sequence, wherein the software modules of the third subset are part of the first
18	tool, the software modules of the fourth subset are part of the second tool, wherein the third
19	predetermined sequence is different from the first predetermined sequence, and the fourth
20	predetermined sequence is different from the second predetermined sequence;
21	executing said software modules of the first subset in said first predetermined sequence
22	in response to said <u>first</u> input data;
23	executing said software modules of the second subset in said second predetermined
24	sequence in response to output of the first subset of software modules;[[and]]
25	executing said software modules of the third subset in said third predetermined
26	sequence in response to said second input data;
27	executing said software modules of the fourth subset in said fourth predetermined
28	sequence in response to output of the third subset of software modules;
29	generating [[said]]a first final product when the execution of said plurality first and
30	second subsets of software modules is complete, wherein said first final product includes a
31	model of a reservoir to be produced by a well; and
32	generating a second final product when the execution of said third and fourth subsets of
33	said software modules is complete, wherein said second final product includes another model
34	of the reservoir.

11. (Cancelled)

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- (Currently Amended) The computer-readable medium of claim 10, wherein executing 1 12. 2 said first subset of software modules in said first predetermined sequence in response to said 3 first input data generates first conditioned data; wherein executing said third subset of software 4 modules in said third predetermined sequence in response to said second input data generates 5 second conditioned data; [[and]] wherein executing said second subset of software modules in 6 said second predetermined sequence is in response to said first conditioned data; wherein 7 executing said fourth subset of software modules in said fourth predetermined sequence is in 8 response to said second conditioned data, said first final product being generated when the 9 execution of said second subset of software modules in said second predetermined sequence is 10 complete, and said second final product being generated when the execution of said fourth subset of software modules in said fourth predetermined sequence is complete. 11 1 13. (Currently Amended) A system for determining a final product in response to a user 2 objective, comprising: 3 first apparatus for receiving [[said]]a first user objective and receiving first input data 4 selected from one or both of wellbore data and reservoir data, and for receiving a second user 5 objective and receiving second input data selected from one or both of wellbore data and 6 reservoir data; 7 second apparatus for generating a specific first workflow corresponding to said first user 8 objective, and for generating a second workflow corresponding to said second user objective; 9 third apparatus for selecting a plurality of software modules in response to said 10 specific first workflow, said plurality of software modules including a first subset of software 11 modules having a first predetermined sequence, and a second subset of software modules 12 having a second predetermined sequence, wherein the software modules of the first subset are 13 part of a first tool, and the software modules of the second subset are part of a second tool; and
 - predetermined sequence, wherein the software modules of the third subset are part of the first tool, and the software modules of the fourth subset are part of the second tool, and wherein the third predetermined sequence is different from the first predetermined sequence, and the fourth

third predetermined sequence, and a fourth subset of software modules having a fourth

for selecting a different plurality of software modules in response to said second workflow, said

different plurality of software modules including a third subset of software modules having a

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20 predetermined sequence is different from the second predetermined sequence;

fourth apparatus for executing said software modules of the first subset in said first predetermined sequence in response to said <u>first</u> input data, [[and]]executing said software modules of the second subset in said second predetermined sequence in response to output of the first subset of software modules, executing said software modules of the third subset in said third predetermined sequence in response to said second input data, and executing said software modules of the fourth subset in said fourth predetermined sequence in response to output of the third subset of software modules; and

fifth apparatus for generating saida first final product when the execution of said pluralityfirst and second subsets of software modules is complete, and generating a second final product when the execution of said third and fourth subsets of software modules is complete, wherein said first final product includes a model of a reservoir to be produced by a well, and wherein said second final product includes another model of the reservoir.

14. (Cancelled)

- 1 15. (Currently Amended) The system of claim 13, wherein the fourth apparatus for
- 2 executing said first subset of software modules in said first predetermined sequence in response
- 3 to said <u>first</u> input data generates <u>first</u> conditioned data; [[and]]<u>the fourth apparatus for</u>
- 4 executing said third subset of software modules in said third predetermined sequence in
- 5 <u>response to said second input data generates second condition data;</u> the fourth apparatus for
- 6 executing said second subset of software modules in said second predetermined sequence is in
- 7 response to said <u>first</u> conditioned data; and the fourth apparatus for executing said fourth subset
- 8 of software modules in said fourth predetermined sequence is in response to said second
- 9 <u>condition data</u>, said <u>first</u> final product being generated when the execution of said second
- subset of software modules in said second predetermined sequence is complete and said second
- 11 final product being generated when the execution of said fourth subset of software modules in
- said fourth predetermined sequence is complete.

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- 1 16. (Currently Amended) The method of claim 1, wherein executing the one or more
- 2 software modules of the first subset causes conditioning of the <u>first set of input data</u> to provide
- 3 [[the]]output that includes conditioned input data.
- 1 17. (Currently Amended) The method of claim 16, wherein conditioning the first set of
- 2 input data includes interpreting the <u>first set of</u> input data.
- 1 18. (Currently Amended) The method of claim 1, further comprising using the reservoir
- 2 <u>model models</u> to predict performance of producing from the reservoir.
- 1 19. (Currently Amended) The computer-readable medium of claim 3, wherein executing the
- 2 one or more software modules of the first subset causes conditioning of the <u>first set of input</u>
- data to provide [[the]]output that includes conditioned input data.
- 1 20. (Currently Amended) The computer-readable medium of claim 19, wherein
- 2 conditioning the first set of input data includes interpreting the first set of input data.
- 1 21. (Currently Amended) The computer-readable medium of claim 3, further comprising
- 2 using the reservoir model models to predict performance of producing from the reservoir.
- 1 22. (Currently Amended) The system of claim 5, wherein executing the one or more
- 2 software modules of the first subset causes conditioning of the first set of input data to provide
- 3 [[the]]output that includes conditioned input data.
- 1 23. (Currently Amended) The system of claim 22, wherein conditioning the first set of input
- 2 data includes interpreting the <u>first set of input data</u>.
- 1 24. (Currently Amended) The system of claim 5, wherein the processor apparatus is to
- 2 further use the reservoir modelmodels to predict performance of producing from the reservoir.

- 1 25. (Currently Amended) The method of claim 7, wherein executing the first subset of
- 2 software modules causes conditioning of the <u>first</u> input data to provide [[the]]output that
- 3 includes conditioned input data.
- 1 26. (Currently Amended) The method of claim 25, wherein conditioning the <u>first</u> input data
- 2 includes interpreting the <u>first</u> input data.
- 1 27. (Currently Amended) The method of claim 7, further comprising using the reservoir
- 2 <u>model models</u> to predict performance of producing from the reservoir.
- 1 28. (Currently Amended) The computer-readable medium of claim 10, wherein executing
- 2 the first subset of software modules causes conditioning of the first input data to provide [[the
- 3 []output that includes conditioned input data.
- 1 29. (Currently Amended) The computer-readable medium of claim 28, wherein
- 2 conditioning the <u>first</u> input data includes interpreting the <u>first</u> input data.
- 1 30. (Currently Amended) The computer-readable medium of claim 10, wherein the method
- 2 steps further comprise using the reservoir model models to predict performance of producing
- 3 from the reservoir.
- 1 31. (Currently Amended) The system of claim 13, wherein executing the first subset of
- 2 software modules causes conditioning of the <u>first</u> input data to provide [[the]]output that
- 3 includes conditioned input data.
- 1 32. (Currently Amended) The system of claim 31, wherein conditioning the <u>first</u> input data
- 2 includes interpreting the <u>first</u> input data.

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- 1 33. (Currently Amended) The system of claim 13, further comprising a sixth apparatus to
- 2 use the reservoir <u>model models</u> to predict performance of producing from the reservoir.